

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



## SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED  
4/17/2013R+ ID#  
REM # 5258  
Location ID  
# 324319

1. OGCC Operator Number: 96850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist OP OGCC
2. Name of Operator: WPX Energy Rocky Mountain LLC	Phone: 970-683-2295	
3. Address: 1058 County Road 215	Fax: 970-285-9573	
City: Parachute State: CO Zip: 81635		
5. API Number: N/A	OGCC Facility ID Number: 278696	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number: TR 31-5-697	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NWNE Sec 5 T6S R97W		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Trall Ridge	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

## General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FMU/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	
Change of Bottomhole Footage from Exterior Section Lines:	
Change of Bottomhole Footage to Exterior Section Lines:	
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement PDOP Reading Instrument Operator's Name	
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation Formation Code Spacing order number Unit Acreage Unit configuration	Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for inspection:	MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

## Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Karolina Blaney Date: 4/17/2013 Email: karolina.blaney@wpxenergy.com  
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: [Signature] Title: EPS NW Date: 04/22/2013  
CONDITIONS OF APPROVAL, IF ANY: Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	96850	API Number:	N/A
2. Name of Operator:	WPX Energy Rocky Mountain LLC		OGCC Facility ID # 278696
3. Well/Facility Name:	TR	Well/Facility Number:	31-5-697
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NWNE Sec 5 T6S R97W 6th pm		

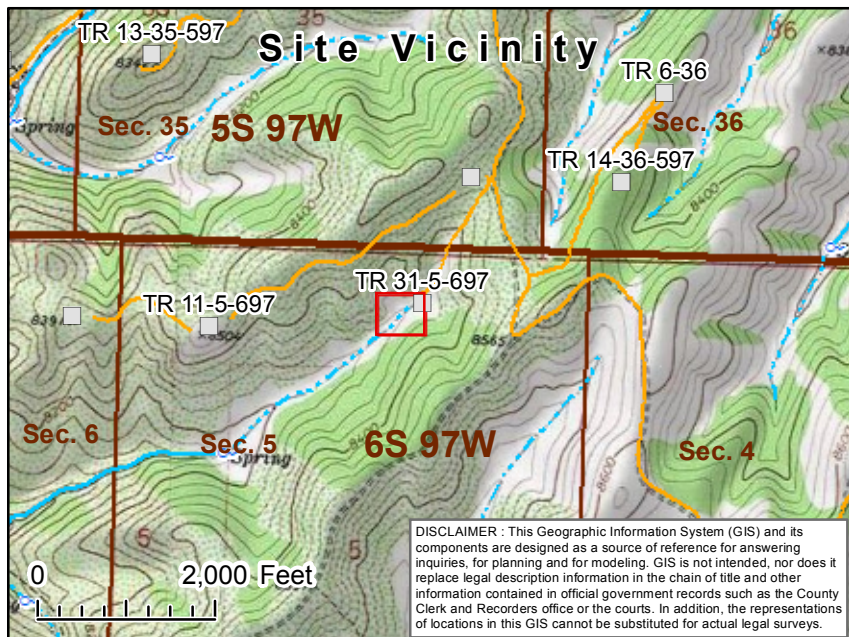
This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Attached with this COGCC Form 4 is the TR 31-5-697 Sampling Summary Report of the samples collected in the first quarter of 2013. The COGCC remediation number is 5258.

The results of first quarter water sampling indicate that the benzene levels continue to decrease in MW-3 and MW-4. The benzene concentration in MW-2 has shown a slight increase from the 4th quarter sampling event conducted in December of 2012. WPX is currently evaluating this data in order to propose remedial actions to address hydrocarbon levels in MW-2. The remediation proposal will be submitted to COGCC, along with the Q2 2013 sampling report, via a subsequent Form 4.





## March 2013 Potentiometric Map

Location: TR 31-5-697

WPX Energy Rocky Mountain, LLC

### Legend



Monitoring Well

Road

### Hydrographic Features



Potentiometric Contour

Perennial Stream

PLSS

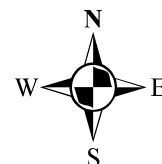


Township



Section

Intermittent Stream



0 50 100 Feet



Table 1

TR 31-5-697 Groundwater Analytical Results



Sample ID:		COGCC Table 910-1 Standards	MW 1 10/19/2011	MW 1 4/9/2012	MW 1 7/12/2012	MW 1 9/18/2012	MW 1 12/5/2012	MW 1 3/27/2013	MW 2 10/19/2011	MW 2 4/9/2012	MW 2 7/12/2012	MW 2 9/18/2012	MW 2 12/5/2012	MW 2 3/27/2013	MW 3 10/19/2011	MW 3 4/9/2012	MW 3 7/12/2012	MW 3 9/18/2012	MW 3 12/5/2012
Date Sampled:																			
Depth to Water (ft.)			22.51	22.07	NT	24.09	24.26	23.65	26.41	25.87	NT	28.35	30.75	28.21	33.38	33.02	NT	33.04	34.3
8260B)																			
DRO	mg/L		0.18	ND	ND	ND	ND	ND	1.1	1.6	ND	3.4	120	39	40	1.1	ND	1.5	2
GRO	mg/L		ND	ND	ND	ND	ND	ND	7	4.8	2.5	10	28	21	4.8	3	1.4	1.8	1.7
Benzene	ug/l	5 ug/l	ND	ND	ND	ND	ND	ND	120	70	98	63	110	150	55	25	8.1	4.4	ND
Ethylbenzene	ug/l	700 ug/l	ND	ND	ND	ND	ND	ND	92	58	56	84	590	190	97	95	28	12	7.1
Toluene	ug/l	560 ug/l	ND	ND	ND	ND	ND	ND	2.2	ND	2.6	ND	36	ND	ND	ND	ND	ND	ND
Xylene (total)	ug/l	1400 ug/l	ND	ND	ND	ND	ND	ND	1600	1200	470	1400	17,000	2,800	600	520	140	100	84
8270C)																			
1-Methylnaphthalene	ug/l		ND	ND	ND	ND	ND	ND	7.5	ND	ND	ND	230	22	ND	ND	ND	ND	5.7
2-Chloronaphthalene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/l		ND	ND	ND	ND	ND	ND	13	ND	ND	ND	600	52	ND	ND	ND	ND	11
Acenaphthene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/l		ND	ND	ND	ND	ND	ND	13	7	ND	5.6	230	23	ND	ND	ND	ND	ND
Phenanthrene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals Analysis																			
Calcium	mg/l		87	64	78	71	68	730	7.7	54	71	46	59	780	79	99	87	75	69
Iron	mg/l		0.12	ND	1.1	0.55	0.12	13	ND	0.13	0.44	0.098	0.2	1.2	0.12	1.1	0.53	0.64	0.18
Magnesium	mg/l		43	32	37	34	33	370	39	28	34	29	30	390	37	42	36	35	33
Manganese	mg/l		ND	ND	0.036	0.024	0.023	1	0.95	0.47	0.53	0.092	0.45	5.9	1.7	3.2	1.9	0.61	2.5
Potassium	mg/l		1.1	0.64	0.9	0.98	0.74	14	1.2	0.79	1.6	0.66	0.98	12	1.1	1.6	1.7	1	0.74
Sodium	mg/l		68	49	56	74	51	570	85	59	83	150	73	900	89	130	81	59	52
General Chemistry																			
Bromide	mg/l		0.34	0.28	0.3	0.33	0.26	0.34	0.41	0.34	0.45	0.47	0.47	0.42	0.55	2.5	0.68	0.36	0.31
Chloride	mg/l	1.25 x bkgd	42	52	45	47	41	44	53	45	53	61	54	51	72	300	95	45	38
Nitrogen, Nitrate	mg/l		1.1	1.5	1.1	0.7	0.64	1.2	0.047	0.18	ND	ND	ND	0.14	ND	ND	ND	ND	ND
Nitrogen, Nitrite	mg/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrogen, Nitrate-Nitrite			1.1	1.5	1.1	0.7	0.64	1.2	0.047	0.1	ND	ND	ND	0.14	ND	ND	ND	ND	ND
Sulfate	mg/l	1.25 x bkgd	130	110	120	130	120	110	67	74	26	35	28	24	61	7.1	39	110	110
Fluoride	mg/l		0.19	0.17	0.24	0.18	0.16	0.19	0.19	0.18	0.27	0.21	0.2	0.18	0.22	0.15	0.23	0.17	0.16
TDS	mg/l	1.25 x bkgd	652	624	NT	601	575	563	618	627	NT	640	607	605	640	1,190	NT	603	581



Table 1

TR 31-5-697 Groundwater Analytical Results



Sample ID:		COGCC	MW 3	MW 4	MW 4	MW 4	MW 4	MW 4	MW 4
Date Sampled:		Table 910-1 Standards	3/27/2013	10/19/2011	4/9/2012	7/12/2012	9/18/2012	12/5/2012	3/27/2013
Depth to Water (ft.)			32.74	28.83	27.56	NT	32.74	33.02	32.36
8260B)									
DRO	mg/L		69	3.1	0.9	7.3	0.87	1.3	1.4
GRO	mg/L		1.9	4.7	2.3	1.6	1.1	0.34	0.9
Benzene	ug/l	5 ug/l	4.1	67	17	27	16	9	2
Ethylbenzene	ug/l	700 ug/l	12	96	72	44	13	2.4	ND
Toluene	ug/l	560 ug/l	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ug/l	1400 ug/l	100	470	160	130	44	7.8	3.2
8270C)									
1-Methylnaphthalene	ug/l		17	6.6	ND	ND	ND	ND	ND
2-Chloronaphthalene	ug/l		ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/l		10	8.4	ND	ND	ND	ND	ND
Acenaphthene	ug/l		5.7	ND	ND	ND	ND	ND	ND
Acenaphthylene	ug/l		ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/l		ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/l		ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/l		ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/l		ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/l		ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/l		ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/l		ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ug/l		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/l		ND	ND	ND	ND	ND	ND	ND
Fluorene	ug/l		ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/l		ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/l		ND	5.9	ND	ND	ND	ND	ND
Phenanthrene	ug/l		ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/l		ND	ND	ND	ND	ND	ND	ND
Metals Analysis									
Calcium	mg/l		870	78	74	79	80	68	910
Iron	mg/l		4	ND	ND	0.17	ND	0.091	1.1
Magnesium	mg/l		410	37	34	35	34	31	430
Manganese	mg/l		6.1	1.7	1.6	1.8	0.92	1.3	17
Potassium	mg/l		9.7	1.1	0.84	0.98	0.79	0.77	9.1
Sodium	mg/l		730	100	87	82	100	71	900
General Chemistry									
Bromide	mg/l		0.52	0.47	0.84	0.38	0.48	0.45	0.55
Chloride	mg/l	1.25 x bkgd	61	63	75	64	61	52	62
Nitrogen, Nitrate	mg/l		0.051	ND	ND	ND	ND	ND	0.05
Nitrogen, Nitrite	mg/l		ND	ND	ND	ND	ND	ND	ND
Nitrogen, Nitrate-Nitrite			0.051	ND	ND	ND	ND	ND	0.05
Sulfate	mg/l	1.25 x bkgd	73	2.7	10	12	49	49	74
Fluoride	mg/l		0.18	0.2	0.18	0.23	0.16	0.16	0.18
TDS	mg/l	1.25 x bkgd	621	623	689	NT	634	601	605

Table 2

## Field Data

[illegible]



05-Apr-2013

Mark Mumby  
HRL Compliance Solutions  
2385 F 1/2 Road  
Grand Junction, CO 81505

Re: **WPX TR 31-5 Monitor Well Samples 3/27/13**

Work Order: **1303913**

Dear Mark,

ALS Environmental received 5 samples on 28-Mar-2013 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 33.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** HRL Compliance Solutions  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13  
**Work Order:** 1303913

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1303913-01	MW 1	Water		3/27/2013 08:40	3/28/2013 09:30	<input type="checkbox"/>
1303913-02	MW 3	Water		3/27/2013 09:15	3/28/2013 09:30	<input type="checkbox"/>
1303913-03	MW 4	Water		3/27/2013 09:40	3/28/2013 09:30	<input type="checkbox"/>
1303913-04	MW 2	Water		3/27/2013 10:10	3/28/2013 09:30	<input type="checkbox"/>
1303913-05	Trip Blank	Water		3/27/2013	3/28/2013 09:30	<input type="checkbox"/>



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**Client:** HRL Compliance Solutions  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13  
**Work Order:** 1303913

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**Case Narrative**

Batch 47319 LCS recovery for one PAH surrogate recovery was above control limits. Sample 1303913-02 PAH analysis had one surrogate recovery that was above the upper control limits. Any PAH reported results may be biased high for this sample. The MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch R118293A sample MW 1 MS/MSD recoveries for Calcium, Sodium, Magnesium and Manganese were below the control limit. The corresponding results in the parent sample may be biased low for Magnesium and Manganese. The amount of Calcium and Sodium found in the parent sample was greater than 4x the spiked amount. No data requires qualification for Calcium and Sodium.

Batch R118093 sample MW 1 MS/MSD recoveries for GRO were below control limits. The corresponding result in the parent sample may be biased low for GRO.

Batch R118301 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification. Sample 1303913-02 had a high BTEX surrogate recovery. Results may be biased high due to matrix interference.

**Client:** HRL Compliance Solutions  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13  
**WorkOrder:** 1303913

## **QUALIFIERS, ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Work Order: 1303913

Sample ID: MW 1

Lab ID: 1303913-01

Collection Date: 3/27/2013 08:40 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep Date: <b>4/1/2013</b>	Analyst: <b>CW</b>
DRO (C10-C28)	ND		0.10	mg/L	1	4/4/2013 11:03 AM
Surr: 4-Terphenyl-d14	46.5		21-90	%REC	1	4/4/2013 11:03 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015</b>			Analyst: <b>CW</b>
GRO (C6-C10)	ND		200	µg/L	1	3/29/2013 04:19 AM
Surr: Toluene-d8	124		70-130	%REC	1	3/29/2013 04:19 AM
<b>METALS BY ICP-MS (DISSOLVED)</b>						
			<b>SW6020A</b>			Analyst: <b>RH</b>
Calcium	730		5.0	mg/L	10	4/2/2013 04:23 PM
Iron	13		0.80	mg/L	10	4/2/2013 04:23 PM
Magnesium	370		2.0	mg/L	10	4/2/2013 04:23 PM
Manganese	1.0		0.050	mg/L	10	4/2/2013 04:23 PM
Potassium	14		2.0	mg/L	10	4/2/2013 04:23 PM
Sodium	570		2.0	mg/L	10	4/2/2013 04:23 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270</b>		Prep Date: <b>4/1/2013</b>	Analyst: <b>HL</b>
1-Methylnaphthalene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
2-Chloronaphthalene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
2-Methylnaphthalene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Acenaphthene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Acenaphthylene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Anthracene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Benzo(a)anthracene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Benzo(a)pyrene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Chrysene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Fluoranthene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Fluorene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Naphthalene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Phenanthrene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Pyrene	ND		5.0	µg/L	1	4/5/2013 09:28 AM
Surr: 2-Fluorobiphenyl	27.1		20-122	%REC	1	4/5/2013 09:28 AM
Surr: 4-Terphenyl-d14	110		22-172	%REC	1	4/5/2013 09:28 AM
Surr: Nitrobenzene-d5	91.2		8-115	%REC	1	4/5/2013 09:28 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		1.0	µg/L	1	3/30/2013 12:51 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Work Order: 1303913

Sample ID: MW 1

Lab ID: 1303913-01

Collection Date: 3/27/2013 08:40 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	ND		1.0	µg/L	1	3/30/2013 12:51 PM
m,p-Xylene	ND		2.0	µg/L	1	3/30/2013 12:51 PM
o-Xylene	ND		1.0	µg/L	1	3/30/2013 12:51 PM
Toluene	ND		1.0	µg/L	1	3/30/2013 12:51 PM
Xylenes, Total	ND		3.0	µg/L	1	3/30/2013 12:51 PM
Surr: 1,2-Dichloroethane-d4	97.0		70-120	%REC	1	3/30/2013 12:51 PM
Surr: 4-Bromofluorobenzene	95.0		75-120	%REC	1	3/30/2013 12:51 PM
Surr: Dibromofluoromethane	95.8		85-115	%REC	1	3/30/2013 12:51 PM
Surr: Toluene-d8	95.1		85-120	%REC	1	3/30/2013 12:51 PM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Bromide	0.34		0.10	mg/L	1	3/28/2013 07:17 PM
Chloride	44		4.0	mg/L	4	3/28/2013 04:35 PM
Fluoride	0.19		0.10	mg/L	1	3/28/2013 07:17 PM
Sulfate	110		10	mg/L	10	3/28/2013 08:38 PM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	3/28/2013 02:30 PM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	1.2		0.020	mg/L	1	3/29/2013 10:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Work Order: 1303913

Sample ID: MW 3

Lab ID: 1303913-02

Collection Date: 3/27/2013 09:15 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>69</b>		<b>0.10</b>	<b>mg/L</b>	<b>1</b>	<b>Analyst: CW</b> 4/4/2013 11:40 AM
Surr: 4-Terphenyl-d14	64.6		21-90	%REC	1	4/4/2013 11:40 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>1,900</b>		<b>200</b>	<b>µg/L</b>	<b>1</b>	<b>Analyst: CW</b> 3/29/2013 04:44 AM
Surr: Toluene-d8	124		70-130	%REC	1	3/29/2013 04:44 AM
<b>METALS BY ICP-MS (DISSOLVED)</b>						
<b>Calcium</b>	<b>870</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	<b>Analyst: RH</b> 4/2/2013 04:38 PM
<b>Iron</b>	<b>4.0</b>		<b>0.80</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:38 PM
<b>Magnesium</b>	<b>410</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:38 PM
<b>Manganese</b>	<b>6.1</b>		<b>0.050</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:38 PM
<b>Potassium</b>	<b>9.7</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:38 PM
<b>Sodium</b>	<b>730</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:38 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>1-Methylnaphthalene</b>	<b>17</b>		<b>5.0</b>	<b>µg/L</b>	<b>1</b>	<b>Analyst: HL</b> 4/4/2013 10:13 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
<b>2-Methylnaphthalene</b>	<b>10</b>		<b>5.0</b>	<b>µg/L</b>	<b>1</b>	4/4/2013 10:13 PM
<b>Acenaphthene</b>	<b>5.7</b>		<b>5.0</b>	<b>µg/L</b>	<b>1</b>	4/4/2013 10:13 PM
Acenaphthylene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Anthracene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Chrysene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Fluoranthene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Fluorene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Naphthalene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Phenanthrene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Pyrene	ND		5.0	µg/L	1	4/4/2013 10:13 PM
Surr: 2-Fluorobiphenyl	115		20-122	%REC	1	4/4/2013 10:13 PM
Surr: 4-Terphenyl-d14	112		22-172	%REC	1	4/4/2013 10:13 PM
Surr: Nitrobenzene-d5	128	S	8-115	%REC	1	4/4/2013 10:13 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
<b>Benzene</b>	<b>4.1</b>		<b>1.0</b>	<b>µg/L</b>	<b>1</b>	<b>Analyst: AK</b> 3/30/2013 01:15 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Work Order: 1303913

Sample ID: MW 3

Lab ID: 1303913-02

Collection Date: 3/27/2013 09:15 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	12		1.0	µg/L	1	3/30/2013 01:15 AM
m,p-Xylene	99		2.0	µg/L	1	3/30/2013 01:15 AM
o-Xylene	4.7		1.0	µg/L	1	3/30/2013 01:15 AM
Toluene	ND		1.0	µg/L	1	3/30/2013 01:15 AM
Xylenes, Total	100		3.0	µg/L	1	3/30/2013 01:15 AM
Surr: 1,2-Dichloroethane-d4	91.8		70-120	%REC	1	3/30/2013 01:15 AM
Surr: 4-Bromofluorobenzene	660	S	75-120	%REC	1	3/30/2013 01:15 AM
Surr: Dibromofluoromethane	92.6		85-115	%REC	1	3/30/2013 01:15 AM
Surr: Toluene-d8	680	S	85-120	%REC	1	3/30/2013 01:15 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Bromide	0.52		0.10	mg/L	1	3/28/2013 03:34 PM
Chloride	61		10	mg/L	10	3/28/2013 07:37 PM
Fluoride	0.18		0.10	mg/L	1	3/28/2013 03:34 PM
Sulfate	73		10	mg/L	10	3/28/2013 07:37 PM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	3/28/2013 02:30 PM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	0.051		0.020	mg/L	1	3/29/2013 10:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Work Order: 1303913

Sample ID: MW 4

Lab ID: 1303913-03

Collection Date: 3/27/2013 09:40 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep Date: <b>4/1/2013</b>	Analyst: <b>CW</b>
<b>DRO (C10-C28)</b>	<b>1.4</b>		<b>0.10</b>	<b>mg/L</b>	<b>1</b>	4/4/2013 12:53 PM
Surr: 4-Terphenyl-d14	51.0		21-90	%REC	1	4/4/2013 12:53 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015</b>			Analyst: <b>CW</b>
<b>GRO (C6-C10)</b>	<b>900</b>		<b>200</b>	<b>µg/L</b>	<b>1</b>	3/29/2013 05:09 AM
Surr: Toluene-d8	123		70-130	%REC	1	3/29/2013 05:09 AM
<b>METALS BY ICP-MS (DISSOLVED)</b>						
			<b>SW6020A</b>			Analyst: <b>RH</b>
<b>Calcium</b>	<b>910</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:58 PM
<b>Iron</b>	<b>1.1</b>		<b>0.80</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:58 PM
<b>Magnesium</b>	<b>430</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:58 PM
<b>Manganese</b>	<b>17</b>		<b>0.050</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:58 PM
<b>Potassium</b>	<b>9.1</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:58 PM
<b>Sodium</b>	<b>900</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 04:58 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270</b>		Prep Date: <b>4/1/2013</b>	Analyst: <b>HL</b>
1-Methylnaphthalene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
2-Methylnaphthalene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Acenaphthene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Acenaphthylene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Anthracene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Chrysene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Fluoranthene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Fluorene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Naphthalene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Phenanthrene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Pyrene	ND		5.0	µg/L	1	4/4/2013 10:51 PM
Surr: 2-Fluorobiphenyl	54.1		20-122	%REC	1	4/4/2013 10:51 PM
Surr: 4-Terphenyl-d14	58.6		22-172	%REC	1	4/4/2013 10:51 PM
Surr: Nitrobenzene-d5	55.6		8-115	%REC	1	4/4/2013 10:51 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8260</b>			Analyst: <b>AK</b>
<b>Benzene</b>	<b>2.0</b>		<b>1.0</b>	<b>µg/L</b>	<b>1</b>	3/30/2013 01:39 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Work Order: 1303913

Sample ID: MW 4

Lab ID: 1303913-03

Collection Date: 3/27/2013 09:40 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	ND		1.0	µg/L	1	3/30/2013 01:39 AM
<b>m,p-Xylene</b>	<b>3.2</b>		<b>2.0</b>	<b>µg/L</b>	1	3/30/2013 01:39 AM
o-Xylene	ND		1.0	µg/L	1	3/30/2013 01:39 AM
Toluene	ND		1.0	µg/L	1	3/30/2013 01:39 AM
<b>Xylenes, Total</b>	<b>3.2</b>		<b>3.0</b>	<b>µg/L</b>	1	3/30/2013 01:39 AM
Surr: 1,2-Dichloroethane-d4	92.6		70-120	%REC	1	3/30/2013 01:39 AM
Surr: 4-Bromofluorobenzene	96.5		75-120	%REC	1	3/30/2013 01:39 AM
Surr: Dibromofluoromethane	91.2		85-115	%REC	1	3/30/2013 01:39 AM
Surr: Toluene-d8	95.6		85-120	%REC	1	3/30/2013 01:39 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
<b>Bromide</b>	<b>0.55</b>		<b>0.10</b>	<b>mg/L</b>	1	3/28/2013 03:54 PM
<b>Chloride</b>	<b>62</b>		<b>10</b>	<b>mg/L</b>	10	3/28/2013 07:57 PM
<b>Fluoride</b>	<b>0.18</b>		<b>0.10</b>	<b>mg/L</b>	1	3/28/2013 03:54 PM
<b>Sulfate</b>	<b>74</b>		<b>10</b>	<b>mg/L</b>	10	3/28/2013 07:57 PM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	3/28/2013 02:30 PM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	0.050		0.020	mg/L	1	3/29/2013 10:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Work Order: 1303913

Sample ID: MW 2

Lab ID: 1303913-04

Collection Date: 3/27/2013 10:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>39</b>		<b>0.10</b>	<b>mg/L</b>	<b>1</b>	<b>Analyst: CW</b> 4/4/2013 01:30 PM
Surr: 4-Terphenyl-d14	52.1		21-90	%REC	1	4/4/2013 01:30 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>21,000</b>		<b>2,000</b>	<b>µg/L</b>	<b>10</b>	<b>Analyst: CW</b> 4/2/2013 07:31 AM
Surr: Toluene-d8	114		70-130	%REC	10	4/2/2013 07:31 AM
<b>METALS BY ICP-MS (DISSOLVED)</b>						
<b>Calcium</b>	<b>780</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	<b>Analyst: RH</b> 4/2/2013 05:03 PM
<b>Iron</b>	<b>1.2</b>		<b>0.80</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 05:03 PM
<b>Magnesium</b>	<b>390</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 05:03 PM
<b>Manganese</b>	<b>5.9</b>		<b>0.050</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 05:03 PM
<b>Potassium</b>	<b>12</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 05:03 PM
<b>Sodium</b>	<b>900</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/2/2013 05:03 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>1-Methylnaphthalene</b>	<b>22</b>		<b>5.0</b>	<b>µg/L</b>	<b>1</b>	<b>Analyst: HL</b> 4/4/2013 11:30 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
<b>2-Methylnaphthalene</b>	<b>52</b>		<b>5.0</b>	<b>µg/L</b>	<b>1</b>	4/4/2013 11:30 PM
Acenaphthene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Acenaphthylene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Anthracene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Chrysene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Fluoranthene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Fluorene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
<b>Naphthalene</b>	<b>23</b>		<b>5.0</b>	<b>µg/L</b>	<b>1</b>	4/4/2013 11:30 PM
Phenanthrene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Pyrene	ND		5.0	µg/L	1	4/4/2013 11:30 PM
Surr: 2-Fluorobiphenyl	57.6		20-122	%REC	1	4/4/2013 11:30 PM
Surr: 4-Terphenyl-d14	51.1		22-172	%REC	1	4/4/2013 11:30 PM
Surr: Nitrobenzene-d5	57.6		8-115	%REC	1	4/4/2013 11:30 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
<b>Benzene</b>	<b>150</b>		<b>5.0</b>	<b>µg/L</b>	<b>5</b>	<b>Analyst: RS</b> 4/3/2013 08:21 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Sample ID: MW 2

Collection Date: 3/27/2013 10:10 AM

Work Order: 1303913

Lab ID: 1303913-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	190		5.0	µg/L	5	4/3/2013 08:21 AM
m,p-Xylene	2,600		40	µg/L	20	4/2/2013 07:57 AM
o-Xylene	240		5.0	µg/L	5	4/3/2013 08:21 AM
Toluene	ND		5.0	µg/L	5	4/3/2013 08:21 AM
Xylenes, Total	2,800		60	µg/L	20	4/2/2013 07:57 AM
Surr: 1,2-Dichloroethane-d4	82.1		70-120	%REC	5	4/3/2013 08:21 AM
Surr: 1,2-Dichloroethane-d4	91.0		70-120	%REC	20	4/2/2013 07:57 AM
Surr: 4-Bromofluorobenzene	100		75-120	%REC	5	4/3/2013 08:21 AM
Surr: 4-Bromofluorobenzene	96.9		75-120	%REC	20	4/2/2013 07:57 AM
Surr: Dibromofluoromethane	91.0		85-115	%REC	5	4/3/2013 08:21 AM
Surr: Dibromofluoromethane	93.2		85-115	%REC	20	4/2/2013 07:57 AM
Surr: Toluene-d8	97.1		85-120	%REC	20	4/2/2013 07:57 AM
Surr: Toluene-d8	109		85-120	%REC	5	4/3/2013 08:21 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Bromide	0.42		0.10	mg/L	1	3/28/2013 04:15 PM
Chloride	51		5.0	mg/L	5	3/28/2013 08:17 PM
Fluoride	0.18		0.10	mg/L	1	3/28/2013 04:15 PM
Sulfate	24		5.0	mg/L	5	3/28/2013 08:17 PM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	3/28/2013 02:30 PM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	0.14		0.020	mg/L	1	3/29/2013 10:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



**ALS Group USA, Corp**

Date: 05-Apr-13

**Client:** HRL Compliance Solutions**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13**Work Order:** 1303913**Sample ID:** Trip Blank**Lab ID:** 1303913-05**Collection Date:** 3/27/2013**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		1.0	µg/L	1	3/30/2013 12:26 PM
Ethylbenzene	ND		1.0	µg/L	1	3/30/2013 12:26 PM
m,p-Xylene	ND		2.0	µg/L	1	3/30/2013 12:26 PM
o-Xylene	ND		1.0	µg/L	1	3/30/2013 12:26 PM
Toluene	ND		1.0	µg/L	1	3/30/2013 12:26 PM
Xylenes, Total	ND		3.0	µg/L	1	3/30/2013 12:26 PM
Surr: 1,2-Dichloroethane-d4	95.1		70-120	%REC	1	3/30/2013 12:26 PM
Surr: 4-Bromofluorobenzene	95.6		75-120	%REC	1	3/30/2013 12:26 PM
Surr: Dibromofluoromethane	95.1		85-115	%REC	1	3/30/2013 12:26 PM
Surr: Toluene-d8	94.3		85-120	%REC	1	3/30/2013 12:26 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 05-Apr-13

Client: HRL Compliance Solutions

## QC BATCH REPORT

Work Order: 1303913

Project: WPX TR 31-5 Monitor Well Samples 3/27/13

Batch ID: 47316

Instrument ID GC11

Method: SW8015M

<b>MBLK</b>		Sample ID: <b>DBLKW1-47316-47316</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/1/2013 11:19 PM</b>		
Client ID:		Run ID: <b>GC11_130401A</b>				SeqNo: <b>2257509</b>		Prep Date: <b>4/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	0.06233	0	0.1143	0	54.5	21-90	0			

<b>LCS</b>		Sample ID: <b>DLCSW1-47316-47316</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/1/2013 11:53 PM</b>		
Client ID:		Run ID: <b>GC11_130401A</b>				SeqNo: <b>2257510</b>		Prep Date: <b>4/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	6.715	0.10	11.43	0	58.8	44-116	0			
Surr: 4-Terphenyl-d14	0.06939	0	0.1143	0	60.7	21-90	0			

<b>MS</b>		Sample ID: <b>1304003-01B MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/2/2013 12:27 PM</b>		
Client ID:		Run ID: <b>GC11_130401A</b>				SeqNo: <b>2257546</b>		Prep Date: <b>4/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	19.55	0.35	40	0	48.9	44-116	0			
Surr: 4-Terphenyl-d14	0.2316	0	0.4	0	57.9	21-90	0			

<b>MSD</b>		Sample ID: <b>1304003-01B MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/2/2013 01:01 AM</b>		
Client ID:		Run ID: <b>GC11_130401A</b>				SeqNo: <b>2257511</b>		Prep Date: <b>4/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	24.06	0.35	40	0	60.2	44-116	19.55	20.7	30	
Surr: 4-Terphenyl-d14	0.2488	0	0.4	0	62.2	21-90	0.2316	7.16	30	

The following samples were analyzed in this batch:

1303913-01B  
1303913-04B

1303913-02B

1303913-03B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118093**      Instrument ID **GC9**      Method: **SW8015**

<b>MBLK</b>		Sample ID: <b>GBLK1-130328-R118093</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/28/2013 08:17 PM</b>		
Client ID:		Run ID: <b>GC9_130328A</b>				SeqNo: <b>2253736</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>121.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>121</i>	<i>70-130</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>GLCS1-130328-R118093</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/28/2013 07:52 PM</b>		
Client ID:		Run ID: <b>GC9_130328A</b>				SeqNo: <b>2253735</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8005	200	10000	0	80	70-130	0			
<i>Surr: Toluene-d8</i>	<i>112</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>112</i>	<i>70-130</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>1303913-01A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/29/2013 05:34 AM</b>		
Client ID: <b>MW 1</b>		Run ID: <b>GC9_130328A</b>				SeqNo: <b>2253740</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	6775	200	10000	0	67.8	70-130	0			S
<i>Surr: Toluene-d8</i>	<i>110.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>111</i>	<i>70-130</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>1303913-01A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/29/2013 06:00 AM</b>		
Client ID: <b>MW 1</b>		Run ID: <b>GC9_130328A</b>				SeqNo: <b>2253741</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	6593	200	10000	0	65.9	70-130	6775	2.73	30	S
<i>Surr: Toluene-d8</i>	<i>109.5</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>109</i>	<i>70-130</i>	<i>110.8</i>	<i>1.16</i>	<i>30</i>	

The following samples were analyzed in this batch:

1303913-01A	1303913-02A	1303913-03A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118235**      Instrument ID **GC10**      Method: **SW8015**

<b>MBLK</b>		Sample ID: <b>GBLK2-130401-R118235</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/1/2013 11:16 PM</b>		
Client ID:		Run ID: <b>GC10_130401B</b>				SeqNo: <b>2256755</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>113.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>113</i>	<i>70-130</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>GLCS2-130401-R118235</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/1/2013 10:52 PM</b>		
Client ID:		Run ID: <b>GC10_130401B</b>				SeqNo: <b>2256754</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8987	200	10000	0	89.9	70-130	0			
<i>Surr: Toluene-d8</i>	<i>118.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>118</i>	<i>70-130</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>13031012-01A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/2/2013 07:55 AM</b>		
Client ID:		Run ID: <b>GC10_130401B</b>				SeqNo: <b>2257085</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8033	200	10000	0	80.3	70-130	0			
<i>Surr: Toluene-d8</i>	<i>111.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>112</i>	<i>70-130</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>13031012-01A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/2/2013 08:19 AM</b>		
Client ID:		Run ID: <b>GC10_130401B</b>				SeqNo: <b>2257086</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	7793	200	10000	0	77.9	70-130	8033	3.03	30	
<i>Surr: Toluene-d8</i>	<i>111.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>111</i>	<i>70-130</i>	<i>111.8</i>	<i>0.466</i>	<i>30</i>	

The following samples were analyzed in this batch:

1303913-04A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118293A**    Instrument ID **ICPMS2**    Method: **SW6020A**    **(Dissolve)**

<b>MS</b>		Sample ID: <b>1303913-01CMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/2/2013 04:28 PM</b>		
Client ID: <b>MW 1</b>		Run ID: <b>ICPMS2_130402A</b>				SeqNo: <b>2257898</b>		Prep Date:		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	177.7	5.0	100	734.2	-556	75-125	0			SO
Iron	103.5	0.80	100	13.23	90.3	75-125	0			
Magnesium	141.5	2.0	100	367	-226	75-125	0			S
Manganese	1.137	0.050	1	1.034	10.3	75-125	0			S
Potassium	104.1	2.0	100	13.98	90.1	75-125	0			
Sodium	169.8	2.0	100	565.5	-396	75-125	0			SO

<b>MSD</b>		Sample ID: <b>1303913-01CMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/2/2013 04:33 PM</b>		
Client ID: <b>MW 1</b>		Run ID: <b>ICPMS2_130402A</b>				SeqNo: <b>2257899</b>		Prep Date:		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	176.2	5.0	100	734.2	-558	75-125	177.7	0.848	20	SO
Iron	103.2	0.80	100	13.23	90	75-125	103.5	0.29	20	
Magnesium	139.6	2.0	100	367	-227	75-125	141.5	1.35	20	S
Manganese	1.124	0.050	1	1.034	9	75-125	1.137	1.15	20	S
Potassium	103	2.0	100	13.98	89	75-125	104.1	1.06	20	
Sodium	168.7	2.0	100	565.5	-397	75-125	169.8	0.65	20	SO

The following samples were analyzed in this batch:

1303913-01C	1303913-02C	1303913-03C
1303913-04C		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **47319**      Instrument ID **SVMS4**      Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>SBLKW1-47319-47319</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/4/2013 05:40 PM</b>		
Client ID:		Run ID: <b>SVMS4_130404A</b>				SeqNo: <b>2261581</b>		Prep Date: <b>4/1/2013</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	5.0								
2-Chloronaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
Acenaphthene	ND	5.0								
Acenaphthylene	ND	5.0								
Anthracene	ND	5.0								
Benzo(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	5.0								
Benzo(b)fluoranthene	ND	5.0								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	5.0								
Chrysene	ND	5.0								
Dibenzo(a,h)anthracene	ND	5.0								
Fluoranthene	ND	5.0								
Fluorene	ND	5.0								
Indeno(1,2,3-cd)pyrene	ND	5.0								
Naphthalene	ND	5.0								
Phenanthrene	ND	5.0								
Pyrene	ND	5.0								
<i>Surr: 2-Fluorobiphenyl</i>	<i>115.4</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>101</i>	<i>20-122</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>149.7</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>131</i>	<i>22-172</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>124.6</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>109</i>	<i>8-115</i>	<i>0</i>			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **47319**      Instrument ID **SVMS4**      Method: **SW8270**

LCS Sample ID: <b>SLCSW1-47319-47319</b>				Units: <b>µg/L</b>			Analysis Date: <b>4/4/2013 03:04 PM</b>			
Client ID:		Run ID: <b>SVMS4_130404A</b>		SeqNo: <b>2261577</b>		Prep Date: <b>4/1/2013</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	50.29	5.0	45.7	0	110	40-140	0			
2-Chloronaphthalene	41.14	5.0	45.7	0	90	40-140	0			
2-Methylnaphthalene	54.29	5.0	45.7	0	119	40-140	0			
Acenaphthene	46.86	5.0	45.7	0	103	40-140	0			
Acenaphthylene	44.57	5.0	45.7	0	97.5	40-140	0			
Anthracene	50.86	5.0	45.7	0	111	40-140	0			
Benzo(a)anthracene	45.14	5.0	45.7	0	98.8	40-140	0			
Benzo(a)pyrene	58.29	5.0	45.7	0	128	40-140	0			
Benzo(b)fluoranthene	40	5.0	45.7	0	87.5	40-140	0			
Benzo(g,h,i)perylene	51.43	5.0	45.7	0	113	40-140	0			
Benzo(k)fluoranthene	57.14	5.0	45.7	0	125	40-140	0			
Chrysene	50.86	5.0	45.7	0	111	40-140	0			
Dibenzo(a,h)anthracene	46.86	5.0	45.7	0	103	40-140	0			
Fluoranthene	52.57	5.0	45.7	0	115	40-140	0			
Fluorene	56.57	5.0	45.7	0	124	40-140	0			
Indeno(1,2,3-cd)pyrene	53.14	5.0	45.7	0	116	40-140	0			
Naphthalene	47.43	5.0	45.7	0	104	40-140	0			
Phenanthrene	48.57	5.0	45.7	0	106	40-140	0			
Pyrene	53.71	5.0	45.7	0	118	40-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>161.7</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>142</i>	<i>20-122</i>	<i>0</i>			<i>S</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>137.1</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>120</i>	<i>22-172</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>130.9</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>115</i>	<i>8-115</i>	<i>0</i>			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **47319**      Instrument ID **SVMS4**      Method: **SW8270**

MS				Sample ID: <b>13031021-06B MS</b>			Units: <b>µg/L</b>		Analysis Date: <b>4/4/2013 03:43 PM</b>	
Client ID:				Run ID: <b>SVMS4_130404A</b>			SeqNo: <b>2261578</b>		Prep Date: <b>4/1/2013</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	174	18	160	0	109	60-140	0			
2-Chloronaphthalene	140	18	160	0	87.5	60-140	0			
2-Methylnaphthalene	182	18	160	0	114	60-140	0			
Acenaphthene	152	18	160	0	95	60-140	0			
Acenaphthylene	140	18	160	0	87.5	60-140	0			
Anthracene	170	18	160	0	106	60-140	0			
Benzo(a)anthracene	150	18	160	0	93.8	60-140	0			
Benzo(a)pyrene	198	18	160	0	124	60-140	0			
Benzo(b)fluoranthene	130	18	160	0	81.3	60-140	0			
Benzo(g,h,i)perylene	172	18	160	0	108	60-140	0			
Benzo(k)fluoranthene	200	18	160	0	125	60-140	0			
Chrysene	178	18	160	0	111	60-140	0			
Dibenzo(a,h)anthracene	156	18	160	0	97.5	60-140	0			
Fluoranthene	174	18	160	0	109	60-140	0			
Fluorene	182	18	160	0	114	60-140	0			
Indeno(1,2,3-cd)pyrene	178	18	160	0	111	60-140	0			
Naphthalene	154	18	160	0	96.3	60-140	0			
Phenanthrene	166	18	160	0	104	60-140	0			
Pyrene	180	18	160	0	113	60-140	0			
Surr: 2-Fluorobiphenyl	544	0	399	0	136	20-122	0			S
Surr: 4-Terphenyl-d14	486	0	399	0	122	22-172	0			
Surr: Nitrobenzene-d5	438	0	399	0	110	8-115	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **47319**      Instrument ID **SVMS4**      Method: **SW8270**

MSD				Sample ID: 13031021-06B MSD			Units: µg/L		Analysis Date: 4/4/2013 04:22 PM		
Client ID:		Run ID: SVMS4_130404A			SeqNo: 2261579		Prep Date: 4/1/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	176	18	160	0	110	60-140	174	1.14	30		
2-Chloronaphthalene	138	18	160	0	86.3	60-140	140	1.44	30		
2-Methylnaphthalene	174	18	160	0	109	60-140	182	4.49	30		
Acenaphthene	138	18	160	0	86.3	60-140	152	9.66	30		
Acenaphthylene	126	18	160	0	78.8	60-140	140	10.5	30		
Anthracene	168	18	160	0	105	60-140	170	1.18	30		
Benzo(a)anthracene	148	18	160	0	92.5	60-140	150	1.34	30		
Benzo(a)pyrene	194	18	160	0	121	60-140	198	2.04	30		
Benzo(b)fluoranthene	122	18	160	0	76.3	60-140	130	6.35	30		
Benzo(g,h,i)perylene	170	18	160	0	106	60-140	172	1.17	30		
Benzo(k)fluoranthene	206	18	160	0	129	60-140	200	2.96	30		
Chrysene	176	18	160	0	110	60-140	178	1.13	30		
Dibenzo(a,h)anthracene	154	18	160	0	96.3	60-140	156	1.29	30		
Fluoranthene	172	18	160	0	108	60-140	174	1.16	30		
Fluorene	172	18	160	0	108	60-140	182	5.65	30		
Indeno(1,2,3-cd)pyrene	176	18	160	0	110	60-140	178	1.13	30		
Naphthalene	144	18	160	0	90	60-140	154	6.71	30		
Phenanthrene	162	18	160	0	101	60-140	166	2.44	30		
Pyrene	176	18	160	0	110	60-140	180	2.25	30		
Surr: 2-Fluorobiphenyl	538	0	399	0	135	20-122	544	1.11	30	S	
Surr: 4-Terphenyl-d14	478	0	399	0	120	22-172	486	1.66	30		
Surr: Nitrobenzene-d5	422	0	399	0	106	8-115	438	3.72	30		

The following samples were analyzed in this batch:

1303913-01B	1303913-02B	1303913-03B
1303913-04B		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118179**      Instrument ID **VMS6**      Method: **SW8260**

<b>MBLK</b>		Sample ID: <b>VBLKW2-130329-R118179</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/29/2013 10:49 PM</b>		
Client ID:		Run ID: <b>VMS6_130329B</b>				SeqNo: <b>2256547</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	18.55	0	20	0	92.8	70-120	0			
Surr: 4-Bromofluorobenzene	18.69	0	20	0	93.4	75-120	0			
Surr: Dibromofluoromethane	18.89	0	20	0	94.4	85-115	0			
Surr: Toluene-d8	18.76	0	20	0	93.8	85-120	0			

<b>LCS</b>		Sample ID: <b>VLCSW2-130329-R118179</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/29/2013 10:00 PM</b>		
Client ID:		Run ID: <b>VMS6_130329B</b>				SeqNo: <b>2256546</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.29	1.0	20	0	101	80-120	0			
Ethylbenzene	19.54	1.0	20	0	97.7	75-125	0			
m,p-Xylene	38.95	2.0	40	0	97.4	75-130	0			
o-Xylene	19.16	1.0	20	0	95.8	80-120	0			
Toluene	19.18	1.0	20	0	95.9	75-120	0			
Xylenes, Total	58.11	3.0	60	0	96.8	75-130	0			
Surr: 1,2-Dichloroethane-d4	18.78	0	20	0	93.9	70-120	0			
Surr: 4-Bromofluorobenzene	19.68	0	20	0	98.4	75-120	0			
Surr: Dibromofluoromethane	19.54	0	20	0	97.7	85-115	0			
Surr: Toluene-d8	19.18	0	20	0	95.9	85-120	0			

<b>MS</b>		Sample ID: <b>1303932-04A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/30/2013 07:43 AM</b>		
Client ID:		Run ID: <b>VMS6_130329B</b>				SeqNo: <b>2256570</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.48	1.0	20	0	97.4	80-120	0			
Ethylbenzene	18.91	1.0	20	0	94.6	75-125	0			
m,p-Xylene	37.74	2.0	40	0	94.4	75-130	0			
o-Xylene	18.43	1.0	20	0	92.2	80-120	0			
Toluene	18.51	1.0	20	0	92.6	75-120	0			
Xylenes, Total	56.17	3.0	60	0	93.6	75-130	0			
Surr: 1,2-Dichloroethane-d4	18.97	0	20	0	94.8	70-120	0			
Surr: 4-Bromofluorobenzene	19.8	0	20	0	99	75-120	0			
Surr: Dibromofluoromethane	19.49	0	20	0	97.4	85-115	0			
Surr: Toluene-d8	19.04	0	20	0	95.2	85-120	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118179**      Instrument ID **VMS6**      Method: **SW8260**

MSD		Sample ID: <b>1303932-04A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>3/30/2013 08:07 AM</b>		
Client ID:		Run ID: <b>VMS6_130329B</b>				SeqNo: <b>2256571</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.75	1.0	20	0	98.8	80-120	19.48	1.38	30	
Ethylbenzene	19.17	1.0	20	0	95.8	75-125	18.91	1.37	30	
m,p-Xylene	38.22	2.0	40	0	95.6	75-130	37.74	1.26	30	
o-Xylene	18.51	1.0	20	0	92.6	80-120	18.43	0.433	30	
Toluene	18.61	1.0	20	0	93	75-120	18.51	0.539	30	
Xylenes, Total	56.73	3.0	60	0	94.6	75-130	56.17	0.992	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.7</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.5</i>	<i>70-120</i>	<i>18.97</i>	<i>1.43</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.62</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.1</i>	<i>75-120</i>	<i>19.8</i>	<i>0.913</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.33</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.6</i>	<i>85-115</i>	<i>19.49</i>	<i>0.824</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>18.65</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.2</i>	<i>85-120</i>	<i>19.04</i>	<i>2.07</i>	<i>30</i>	

The following samples were analyzed in this batch:

1303913-01A	1303913-02A	1303913-03A
1303913-04A	1303913-05A	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions  
 Work Order: 1303913  
 Project: WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118239A** Instrument ID **VMS6** Method: **SW8260**

<b>MBLK</b>		Sample ID: <b>VBLKW2-130401-R118239A</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/1/2013 11:48 PM</b>		
Client ID:		Run ID: <b>VMS6_130401B</b>				SeqNo: <b>2257737</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	ND	2.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	18.85	0	20	0	94.2	70-120	0			
Surr: 4-Bromofluorobenzene	18.81	0	20	0	94	75-120	0			
Surr: Dibromofluoromethane	19.13	0	20	0	95.6	85-115	0			
Surr: Toluene-d8	18.99	0	20	0	95	85-120	0			

<b>LCS</b>		Sample ID: <b>VLCSW2-130401-R118239A</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/1/2013 10:59 PM</b>		
Client ID:		Run ID: <b>VMS6_130401B</b>				SeqNo: <b>2257736</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	39.43	2.0	40	0	98.6	75-130	0			
Xylenes, Total	59.04	3.0	60	0	98.4	75-130	0			
Surr: 1,2-Dichloroethane-d4	18.27	0	20	0	91.4	70-120	0			
Surr: 4-Bromofluorobenzene	19.38	0	20	0	96.9	75-120	0			
Surr: Dibromofluoromethane	19.53	0	20	0	97.6	85-115	0			
Surr: Toluene-d8	18.63	0	20	0	93.2	85-120	0			

<b>MS</b>		Sample ID: <b>1303932-07A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/2/2013 08:46 AM</b>		
Client ID:		Run ID: <b>VMS6_130401B</b>				SeqNo: <b>2257752</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	42.16	2.0	40	4.6	93.9	75-130	0			
Xylenes, Total	60.94	3.0	60	4.6	93.9	75-130	0			
Surr: 1,2-Dichloroethane-d4	18.12	0	20	0	90.6	70-120	0			
Surr: 4-Bromofluorobenzene	19.82	0	20	0	99.1	75-120	0			
Surr: Dibromofluoromethane	19.46	0	20	0	97.3	85-115	0			
Surr: Toluene-d8	18.89	0	20	0	94.4	85-120	0			

<b>MSD</b>		Sample ID: <b>1303932-07A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/2/2013 09:10 AM</b>		
Client ID:		Run ID: <b>VMS6_130401B</b>				SeqNo: <b>2257753</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	40.72	2.0	40	4.6	90.3	75-130	42.16	3.47	30	
Xylenes, Total	59.07	3.0	60	4.6	90.8	75-130	60.94	3.12	30	
Surr: 1,2-Dichloroethane-d4	17.9	0	20	0	89.5	70-120	18.12	1.22	30	
Surr: 4-Bromofluorobenzene	18.88	0	20	0	94.4	75-120	19.82	4.86	30	
Surr: Dibromofluoromethane	19.03	0	20	0	95.2	85-115	19.46	2.23	30	
Surr: Toluene-d8	18.39	0	20	0	92	85-120	18.89	2.68	30	

The following samples were analyzed in this batch: 1303913-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118301**      Instrument ID **VMS6**      Method: **SW8260**

<b>MBLK</b>		Sample ID: <b>VBLKW2-130402-R118301</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/3/2013 12:36 PM</b>		
Client ID:		Run ID: <b>VMS6_130402B</b>				SeqNo: <b>2259061</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	17.22	0	20	0	86.1	70-120	0			
Surr: 4-Bromofluorobenzene	18.64	0	20	0	93.2	75-120	0			
Surr: Dibromofluoromethane	19.14	0	20	0	95.7	85-115	0			
Surr: Toluene-d8	18.45	0	20	0	92.2	85-120	0			

<b>LCS</b>		Sample ID: <b>VLCSW3-130402-R118301</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/3/2013 07:07 AM</b>		
Client ID:		Run ID: <b>VMS6_130402B</b>				SeqNo: <b>2259053</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.69	1.0	20	0	103	80-120	0			
Ethylbenzene	19.38	1.0	20	0	96.9	75-125	0			
o-Xylene	19.19	1.0	20	0	96	80-120	0			
Toluene	19.12	1.0	20	0	95.6	75-120	0			
Surr: 1,2-Dichloroethane-d4	16.38	0	20	0	81.9	70-120	0			
Surr: 4-Bromofluorobenzene	19.29	0	20	0	96.4	75-120	0			
Surr: Dibromofluoromethane	19.47	0	20	0	97.4	85-115	0			
Surr: Toluene-d8	18.91	0	20	0	94.6	85-120	0			

<b>MS</b>		Sample ID: <b>1303919-01A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/3/2013 09:35 AM</b>		
Client ID:		Run ID: <b>VMS6_130402B</b>				SeqNo: <b>2259058</b>		Prep Date:		DF: <b>50</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1160	50	1000	405	75.4	80-120	0			S
Ethylbenzene	982.5	50	1000	109	87.4	75-125	0			
o-Xylene	958	50	1000	193	76.5	80-120	0			S
Toluene	965.5	50	1000	1508	-54.2	75-120	0			S
Surr: 1,2-Dichloroethane-d4	826	0	1000	0	82.6	70-120	0			
Surr: 4-Bromofluorobenzene	965	0	1000	0	96.5	75-120	0			
Surr: Dibromofluoromethane	966.5	0	1000	0	96.6	85-115	0			
Surr: Toluene-d8	941.5	0	1000	0	94.2	85-120	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118301**      Instrument ID **VMS6**      Method: **SW8260**

MSD				Sample ID: 1303919-01A MSD			Units: µg/L		Analysis Date: 4/3/2013 09:59 AM		
Client ID:			Run ID: VMS6_130402B		SeqNo: 2259059		Prep Date:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1172	50	1000	405	76.8	80-120	1160	1.11	30	S	
Ethylbenzene	983.5	50	1000	109	87.4	75-125	982.5	0.102	30		
o-Xylene	966	50	1000	193	77.3	80-120	958	0.832	30	S	
Toluene	960	50	1000	1508	-54.8	75-120	965.5	0.571	30	S	
Surr: 1,2-Dichloroethane-d4	830.5	0	1000	0	83	70-120	826	0.543	30		
Surr: 4-Bromofluorobenzene	947	0	1000	0	94.7	75-120	965	1.88	30		
Surr: Dibromofluoromethane	953	0	1000	0	95.3	85-115	966.5	1.41	30		
Surr: Toluene-d8	926	0	1000	0	92.6	85-120	941.5	1.66	30		

The following samples were analyzed in this batch:

1303913-04A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118065**      Instrument ID **WETCHEM**      Method: **A4500-NO2 B**

<b>MBLK</b>	Sample ID: <b>WBLKW1-032813-R118065</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 02:30 PM</b>		
Client ID:	Run ID: <b>WETCHEM_130328K</b>				SeqNo: <b>2252843</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      ND      0.020

<b>LCS</b>	Sample ID: <b>WLCSW1-032813-R118065</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 02:30 PM</b>		
Client ID:	Run ID: <b>WETCHEM_130328K</b>				SeqNo: <b>2252844</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      0.2036      0.020      0.2      0      102      80-120      0

<b>MS</b>	Sample ID: <b>1303932-03B MS</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 02:30 PM</b>		
Client ID:	Run ID: <b>WETCHEM_130328K</b>				SeqNo: <b>2252854</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      0.1845      0.020      0.2      0.0008      91.8      75-125      0

<b>MSD</b>	Sample ID: <b>1303932-03B MSD</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 02:30 PM</b>		
Client ID:	Run ID: <b>WETCHEM_130328K</b>				SeqNo: <b>2252855</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      0.1873      0.020      0.2      0.0008      93.2      75-125      0.1845      1.51      20

The following samples were analyzed in this batch:

1303913-01C	1303913-02C	1303913-03C
1303913-04C		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118089**      Instrument ID **IC3**      Method: **SW9056**

<b>MBLK</b>		Sample ID: <b>MBLK-R118089</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 01:08 PM</b>		
Client ID:		Run ID: <b>IC3_130328B</b>				SeqNo: <b>2253449</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	ND	0.10								
Chloride	ND	1.0								
Fluoride	ND	0.10								
Sulfate	ND	1.0								

<b>LCS</b>		Sample ID: <b>LCS-R118089</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 01:29 PM</b>		
Client ID:		Run ID: <b>IC3_130328B</b>				SeqNo: <b>2253450</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.099	0.10	2	0	105	88-113	0			
Chloride	10.05	1.0	10	0	100	88-107	0			
Fluoride	1.969	0.10	2	0	98.4	86-111	0			
Sulfate	10.29	1.0	10	0	103	85-110	0			

<b>MS</b>		Sample ID: <b>1303913-01C MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 04:55 PM</b>		
Client ID: <b>MW 1</b>		Run ID: <b>IC3_130328B</b>				SeqNo: <b>2253456</b>		Prep Date:		DF: <b>4</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.554	0.40	4	0.3328	106	75-125	0			
Chloride	66.28	4.0	20	44.3	110	75-125	0			
Fluoride	4.169	0.40	4	0.3468	95.6	75-125	0			

<b>MS</b>		Sample ID: <b>1303913-01C MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 08:58 PM</b>		
Client ID: <b>MW 1</b>		Run ID: <b>IC3_130328B</b>				SeqNo: <b>2253468</b>		Prep Date:		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	135.7	10	20	114.1	108	75-125	0			O

<b>MSD</b>		Sample ID: <b>1303913-01C MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/28/2013 05:15 PM</b>		
Client ID: <b>MW 1</b>		Run ID: <b>IC3_130328B</b>				SeqNo: <b>2253457</b>		Prep Date:		DF: <b>4</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.434	0.40	4	0.3328	103	75-125	4.554	2.69	20	
Chloride	65.31	4.0	20	44.3	105	75-125	66.28	1.48	20	
Fluoride	4.07	0.40	4	0.3468	93.1	75-125	4.169	2.4	20	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118089** Instrument ID **IC3** Method: **SW9056**

MSD				Sample ID: 1303913-01C MSD				Units: mg/L			Analysis Date: 3/28/2013 09:18 PM		
Client ID: MW 1				Run ID: IC3_130328B				SeqNo: 2253469		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Sulfate	138.2	10	20	114.1	121	75-125	135.7	1.82	20	O			

The following samples were analyzed in this batch:

1303913-01C	1303913-02C	1303913-03C
1303913-04C		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** HRL Compliance Solutions  
**Work Order:** 1303913  
**Project:** WPX TR 31-5 Monitor Well Samples 3/27/13

## QC BATCH REPORT

Batch ID: **R118152**      Instrument ID **LACHAT2**      Method: **E353.2 R2.0**

<b>MBLK</b>	Sample ID: <b>WBLKW1-130329-R118152</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/29/2013 10:30 AM</b>		
Client ID:	Run ID: <b>LACHAT2_130329A</b>				SeqNo: <b>2254824</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      ND      0.020

<b>LCS</b>	Sample ID: <b>WLCSW1-130329-R118152</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/29/2013 10:30 AM</b>		
Client ID:	Run ID: <b>LACHAT2_130329A</b>				SeqNo: <b>2254825</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      5.038      0.020      5      0      101      80-120      0

<b>MS</b>	Sample ID: <b>1303883-04C MS</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/29/2013 10:30 AM</b>		
Client ID:	Run ID: <b>LACHAT2_130329A</b>				SeqNo: <b>2254832</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      7.88      0.020      5      3.098      95.6      75-125      0

<b>MSD</b>	Sample ID: <b>1303883-04C MSD</b>					Units: <b>mg/L</b>		Analysis Date: <b>3/29/2013 10:30 AM</b>		
Client ID:	Run ID: <b>LACHAT2_130329A</b>				SeqNo: <b>2254833</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      7.824      0.020      5      3.098      94.5      75-125      7.88      0.713      20

The following samples were analyzed in this batch:

1303913-01D	1303913-02D	1303913-03D
1303913-04D		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**WORKORDER**  
#

1303913

PAGE

1 of 1

## DISPOSAL






By Lab or Return to Client

[illegible]

\*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

**For metals or anions, please detail analytes below.**

<b>Comments:</b>  <div style="text-align: center;">3.24</div>	<b>QC PACKAGE (check below)</b>							
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)						
	<input type="checkbox"/>	LEVEL III (Std QC + forms)						
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)						
	<input type="checkbox"/>							
<b>Preservative Key:</b> 1-HCl   2-HNO3   3-H2SO4   4-NaOH   5-NaHSO4   7-Other   8-4 degrees C   9-5035								

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dan Pinegar	3-27-13	1212
RECEIVED BY		Lab Hub	3/27/13	1212
RELINQUISHED BY		Lab Hub	3/27/13	1244
RECEIVED BY	FedEx	Fed Ex		
RELINQUISHED BY				
RECEIVED BY		Diane F. Shaw	3/28/13	0930

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 28-Mar-13 09:30

Work Order: 1303913

Received by: DS

Checklist completed by Diane Shaw 28-Mar-13  
eSignature Date

Reviewed by: Ann Preston 28-Mar-13  
eSignature Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>3/28/2013 12:35:54 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (970) 424-4749  
Lab Hub, LLC

Origin ID: RILA



127 E First Street

PARACHUTE, CO 81635

Ship Date: 27MAR13  
Act/Wgt: 43.0 LB  
CAD: 103923490/INET3370

Dims: 23 X 14 X 14 IN

Delivery Address Bar Code



SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving  
ALS Holland  
3352 128TH AVE

HOLLAND, MI 49424

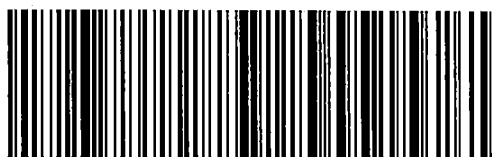
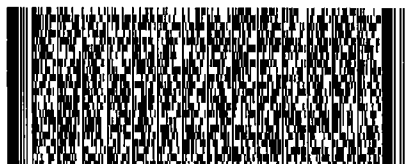
Ref # 1001-032713-1  
Invoice #  
PO #  
Dept #

THU - 28 MAR 3:00P  
STANDARD OVERNIGHT

TRK# 7993 8231 8264  
0201

**XX GRRRA**

**49424**  
MI-US  
GRR



518G164BE63AB

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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